

## Marine Life Protection Act Initiative



### Tools to Support MPA Planning in the North Coast Study Region

Presented to the MLPA North Coast Regional Stakeholder Group  
February 8, 2010 • Eureka, California

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## Joint Fact-Finding Process

### What is joint fact-finding?

- Sharing of information to support informed decision-making
- Information may include:
  - Peer reviewed studies
  - Field knowledge from scientists
  - First-hand knowledge from resource users
- Stakeholders help identify information needs and questions



## Joint Fact-Finding Process

### Why is it important?

- Marine Life Protection Act (MLPA) says rely on the best readily available scientific information

### What does it involve?

- Stakeholders, MLPA Master Plan Science Advisory Team (SAT) members and staff work together to contribute knowledge and information to the process



## Joint Fact-Finding Process

### How does it happen?

- A large amount of information from the public is being incorporated into the revised regional profile (the comment period is now complete)
- Spatial data may be incorporated into MarineMap
- Additional information and reports may be provided to the MLPA North Coast Regional Stakeholder Group (NCRSG)
- Comments and information may be shared during science presentations
- Key questions may be raised for the SAT to address



## Best Readily Available Information

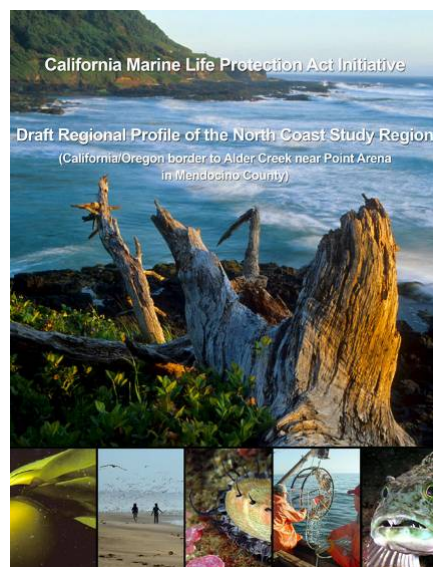
### Resources Available for MPA Planning

- • North coast regional profile and atlases
- • MarineMap
  - Print copy charts/maps
  - Assistance from planning staff and GIS team
  - Presentations from the SAT, I-Team, and invited experts
  - Fellow NCRSG members



## Regional Profile: Purpose

- Provides background information for marine protected area planning in the north coast study region
- Gives a broad overview of a variety of information sources
- Integrates 'best readily available science'





## Regional Profile: Components

- **Main Document**
  - Executive summary and nine sections on a wide range of topics
- **Appendices**
  - Additional statistical information
- **Map Atlases**
  - Display some spatial data layers
- **Web Links**
  - Other tools, information and resources



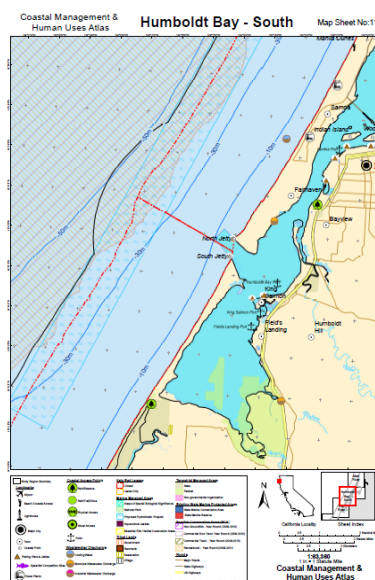
## Regional Profile: Main Document

Chapter	Section
1	Introduction
2	Description of the North Coast Study Region
3	Ecological Setting
4	Land-Sea Interactions
5	Coastal Communities and Human Use of the Marine Environment
6	Academic Institutions, Research, Public Outreach, and Education
7	Jurisdiction and Management
8	Existing Marine Protected Areas and Coastal Protected Areas
9	Conclusion



## Regional Profile: Atlases

- Series of detailed maps for the entire study region
- Two atlases, each with 23 maps
  1. Habitat and Species
  2. Coastal Management and Human Uses
- Display some data layers



## Regional Profile: Public Comments

- Staff created first draft of the north coast regional profile; released early Dec. 2009
- Received comments from a wide range of individuals
  - Over 600 individual comments
  - Submitted by 34 individuals and groups
  - Ecological and socioeconomic sections received most comments
- Staff incorporated comments, to the extent possible
- Revised profile to be released in coming week
- Regional profile is one way to bring information into the planning process – there are other ways



## Regional Profile: Key Revisions

- Updated information
- Corrected errors
- Added data layers
- Examples:
  - Additional hard and soft substrate data
  - Expanded information on Native American tribes
  - Additional fishery statistics



## Regional Profile: Where to Find

- Online  
[http://www.dfg.ca.gov/mlpa/regionalprofile\\_nc.asp](http://www.dfg.ca.gov/mlpa/regionalprofile_nc.asp)
- Print copy
  - Mailed to NCRSG members next week
  - Available in California Department of Fish and Game offices
  - Available in public libraries
- Electronic CD copy
- To request a CD copy, contact the MLPA Office at [MLPAOffice@resources.ca.gov](mailto:MLPAOffice@resources.ca.gov) or 916.654.1885



## MarineMap: Overview

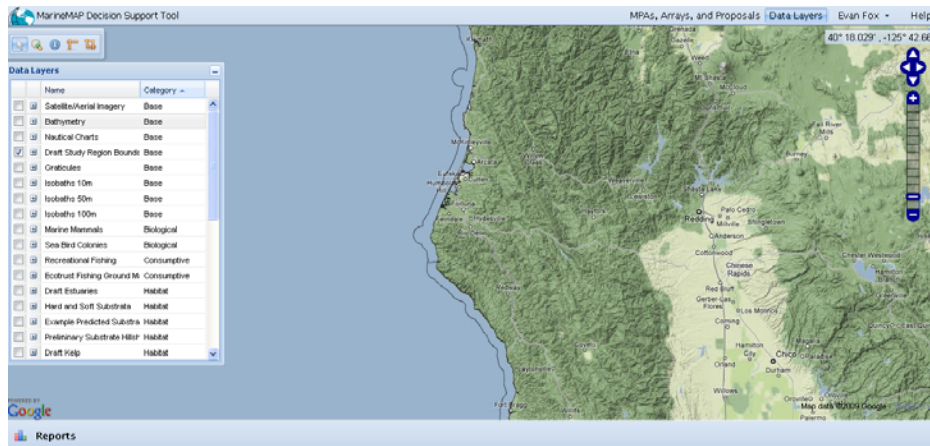
- Online decision-support tool that provides spatial information
- Interactive mapping tool that offers multiple capabilities
  - View data layers
  - Develop, store and share marine protected area (MPA) concepts
  - Generate preliminary reports relative to science guidelines
- Visit online at <http://northcoast.marinemap.org/marinemap/>



## MarineMap: Technical Requirements

- MarineMap is used through a web browser (not a program you download to your computer)
- Anyone can use MarineMap to view information; having an account allows you to draw MPAs
- MarineMap works best with Firefox, Chrome, and Safari (it does not work with Internet Explorer versions before 7.0)
- The new version of MarineMap will require a small download to use Google Earth functions

## MarineMap: Viewing Data Layers

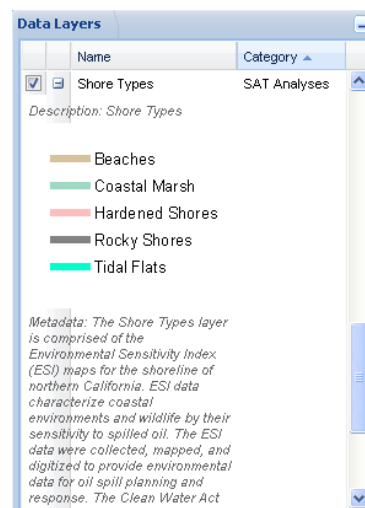
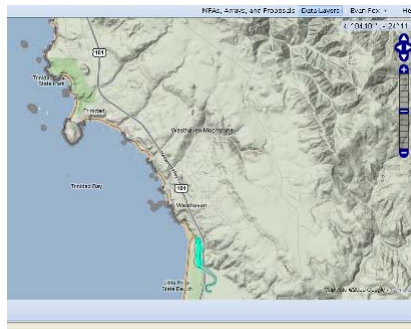


Go to the website: <http://northcoast.marinemap.org/marinemap/>

## MarineMap: Viewing Data Layers

Example: Shoretype Data

- Display any data layer
- Select multiple data layers
- Sort data layers







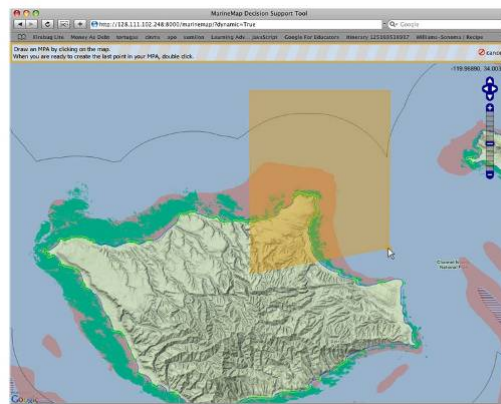
## MarineMap: Key Data Layers

- Nautical Charts
- Graticules (latitude and longitude)
- Substrate (hard and soft bottom)
- Ecotrust Fisheries Data
- Existing MPAs



## MarineMap: Designing MPAs

- Draw MPA boundaries
- Assign attributes
- Assemble MPAs into arrays





## MarineMap: Assigning Attributes

- MPA name
- Proposed designation type (SMR, SMCA, SMP, SMRMA)
- Proposed regulations
- Site-specific rationale
- Goals and objectives
- Design considerations, other regulated activities, and boundaries



## MarineMap: Generate and Share

### Generate basic reports on MPAs and arrays

- Area and distances
- Habitat calculations
- Potential fisheries impacts
- Array summary reports

### Share MPA ideas

- Draft concepts can be shared with others, or kept private



- At NCRSG meetings or work sessions, staff uses MarineMap to display data layers and display and record MPA ideas
- Outside meetings, individual NCRSG members can use MarineMap to brainstorm ideas and concepts to inform meeting discussions
- MarineMap used during meetings where MPA concepts are shared and formalized

MarineMAP Decision Support Tool

MPAs, Arrays, and Proposals | Data Layers | Evan Fox | Help

40° 18' 02.9" N, -125° 42' 16" W

**Data Layers**


	Name	Category
<input type="checkbox"/>	Satellite/Aerial Imagery	Base
<input type="checkbox"/>	D bathymetry	Base
<input type="checkbox"/>	Nautical Charts	Base
<input checked="" type="checkbox"/>	Draft Study Region Boundary	Base
<input type="checkbox"/>	Graticules	Base
<input type="checkbox"/>	Isobaths 10m	Base
<input type="checkbox"/>	Isobaths 50m	Base
<input type="checkbox"/>	Isobaths 100m	Base
<input type="checkbox"/>	Marine Mammals	Biological
<input type="checkbox"/>	Sea Bird Colonies	Biological
<input type="checkbox"/>	Recreational Fishing	Consumptive
<input type="checkbox"/>	Ecodraft Fishing Ground M	Consumptive
<input type="checkbox"/>	Draft Estuaries	Habitat
<input type="checkbox"/>	Hard and Soft Substrate	Habitat
<input type="checkbox"/>	Example Predicted Substrate	Habitat
<input type="checkbox"/>	Preliminary Substrate Hbbr	Habitat
<input type="checkbox"/>	Draft Kelp	Habitat

San Francisco Bay Area map showing various geographical features and data layers.

Google

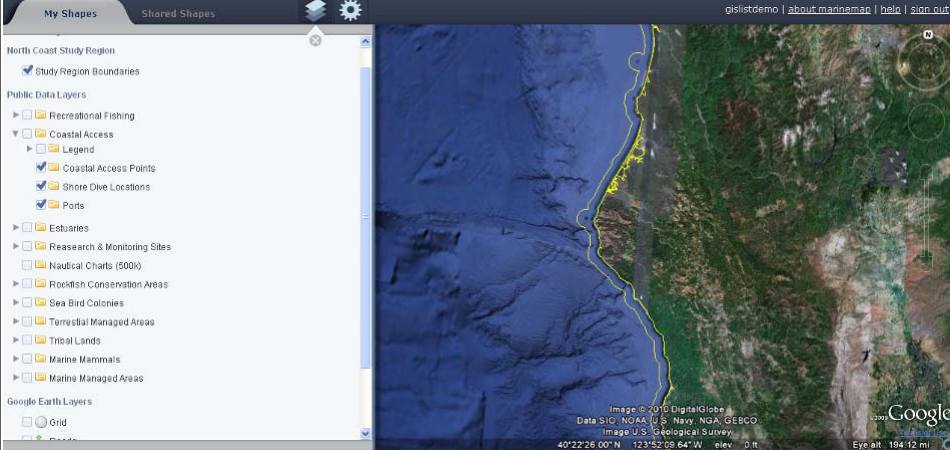
Reports

## Current Version




23

## MarineMap: Future Updates



New Version




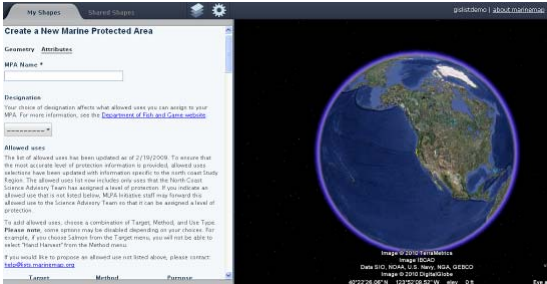
24

## MarineMap: Key Differences & Changes

### Newer Version of MarineMap

- Looks more like Google Earth
- Allows searching for locations
- Has more information on data layers
- Allows viewing the map while adding information about MPAs
- Is more user-friendly

Preview at:  
<http://demo.marinemap.org/>



## Using MarineMap

- NCRSG members encouraged to use MarineMap
- Members of the public may use MarineMap to view data layers and arrays
- Opportunity to learn more and preview the new version tonight
- Additional online training session on Thursday, February 25, 12:00 – 1:00 PM
- For comments, questions, or to request an account, send an email to [help@marinemap.org](mailto:help@marinemap.org)